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Customer Number

Patent
Case No.: 58281US004

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: NOELLE, RANDOLPH J.
Application No.: 10/748010 Group Art Unit: 1653
Filed: December 30, 2003 Examiner: Unknown
Title: IMMUNOSTIMULATORY COMBINATIONS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

31 Aug. 2004

Date

Laci Burhop

Signed by: Laci Burhop

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. Copies of any cited foreign patents, non-patent literature, and unpublished US application documents are enclosed. Pursuant to the waiver in the Pre-OG Notice, dated July 11, 2003, copies of US patents and published US patent applications are no longer required and are not enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

If a first Office Action on the merits has been mailed prior to the mailing date of this document, please charge the fee for consideration of an Information Disclosure Statement set forth in 37 CFR § 1.17(p), and if necessary, please charge any additional fees, or credit any overpayment to Deposit Account No. 13-3723.

Respectfully submitted,

31 August 2004

Date

By:

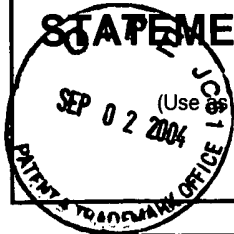
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Office of Intellectual Property Counsel
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT



(Use as many sheets as necessary)

Page 1 of 6

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First Named Inventor

Randolph J. Noelle

Art Unit

1653

Examiner Name

Unknown

Attorney Case Number

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U.S. Patent Documents

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		Doc. Number-(Kind Code if Known)			
	A1	US- 4,689,338	08-25-1987	Gerster	
	A2	US- 4,698,348	10-06-1987	Gerster	
	A3	US- 4,929,624	05-29-1990	Gerster et al.	
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Date Considered:

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Substitute for form 1449A/PTO (modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Page 2 of 6	Application Number	10/748,010
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	First Named Inventor	Randolph J. Noelle
	Art Unit	1653
	Examiner Name	Unknown
	Attorney Case Number	58281US004

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Substitute for form 1449A/PTO (modified)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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	A82	US- 2004/0014779 A1	01-22-04	Gorden et al.	

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Information Disclosure Statement — PTO-1449 (Modified)

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Foreign Patent Documents							
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	B1	EP	0 394 026	10-24-1990			X
	B2	EP	1 104 764 A1	06-06-2001			X
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	B4	JP	11-80156	03-26-1999	(translation only)		X
	B5	JP	11-222432	08-17-1999			X
	B6	JP	2000-247884 (abstract only)	09-12-2000			X
	B7	WO	00/47719 A2	08-17-2000			X
	B8	WO	00/75304 A1	12-14-2000			X
	B9	WO	00/76505 A1	12-21-2000			X
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	B25	WO	03/043572 A2	05-30-2003			X
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	B27	WO	03/103584 A2	12-18-2003			X

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OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)		
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	Testerman, et al., "Cytokine Induction by the Immunomodulators Imiquimod and S-27609", <u>Journal of Leukocyte Biology</u> , Volume 58, pp. 365-372, September 1995.
	C2	Chollet, et al, "Development of a Topically Active Imiquimod Formulation", <u>Pharmaceutical Development and Technology</u> , 4(1), pp 35-43 (1999)
	C3	Brassard et al.; "Interferon- α as an immunotherapeutic protein"; <u>Journal of Leukocyte Biology</u> ; Vol. 71; April 2002; pgs. 565-581
	C4	Izumi et al.; "1H-imidazo[4,5-c]quinoline Derivatives as Novel Potent TNF- α Suppressors: Synthesis and Structure-Activity Relationship of 1-, 2-and 4-Substituted 1H-imidazo[4,5-c]quinolines or 1H-imidazo[4,5-c]pyridines"; <u>Bioorganic and Medicinal Chemistry</u> , Vol. 11, pp. 2541-2550 (2003).
	C5	Hornung et al., "Quantitative Expression of Toll-Like Receptor 1-10 mRNA in Cellular Subsets of Human Peripheral Blood Mononuclear Cells and Sensitivity to CpG Oligodeoxynucleotides ¹ ", <u>The Journal of Immunology</u> , 2002, 168; pgs. 4531-4537.
	C6	Hemmi et al., "Small anti-viral compounds activate immune cells via the TLR7 MyD88-dependent Signaling pathway", <u>Nature Immunology</u> , vol. 3, no. 2; February 2002; pgs. 196-200.
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	C8	Jurk et al. "Human TLR7 and TLR8 independently confer responsiveness to the antiviral compound R-848", <u>Nature Immunology</u> , June 2002, vol. 3, no. 6; pg. 1.
	C9	Akira et al., "Toll-like receptors: critical proteins linking innate and acquired immunity", <u>Nature Immunology</u> , August 2001, vol. 2, no. 8; pgs. 675-680
	C10	Heil et al.; "Synthetic immunostimulatory compounds activate immune cells via TLR7 and TLR8"; 33th Annual Meeting of the Deutsche Gesellschaft für Immunologie, Marburg 2002 - Abstract C.6
	C11	Takeuchi et al.; "Discrimination of bacterial lipoproteins by Toll-like receptor 6", <u>International Immunology</u> , March, 2001, Vol. 13, No. 7, pp. 933-940.
	C12	Maxwell et al.; "Contrasting the Roles of Costimulation and the Natural Adjuvant Lipopolysaccharide During the Induction of T Cell Immunity", <u>J. Immunol.</u> , May 2002; Vol. 168, pp. 4372-4381.
	C13	Maxwell et al, Danger and OX40 Receptor Signaling Synergize to Enhance Memory T Cell Survival by Inhibiting Peripheral Deletion, <u>J. Immunol.</u> , Jan. 2000; Vol. 164, pp. 107-112.
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	C17	Faint et al.; "Memory T Cells Constitute a Subset of the Human CD8+CD45RA+ Pool with Distinct Phenotypic and Migratory Characteristics", <u>J. Immunol.</u> , 2001, Vol. 167, pp. 212-220.
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OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)		
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	C19	Kedl et al, "T Cells Compete for Access to Antigen-Bearing Antigen-Presenting Cells", <u>J. Exp. Med.</u> , Vol. 192, No. 8, pp. 1105-1113.

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